

List of All Chemicals

P Costus speciosus (Costaceae)

Common name(s)

Wild Ginger; Cane Reed; Crepe Ginger

How used

Medicinal

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Plant Part	Low PPM	High PPM	StdDev	*Reference
14-OXO-HEPTACOSANOIC-ACID	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
14-OXO-TRICHOSANOIC-ACID	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
15-OXO-OCTACOSANOIC-ACID	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
5-ALPHA-STIGMAST-9(11)-EN-3-BETA-OL	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
BETA-SITOSTEROL	Rhizome	--	--		*

Activities (47)

Androgenic	
Angiogenic	
Anorexic	Martindale's 28th
Antiadenomic	Merck 11th Edition
Antiandrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antibacterial	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Anticancer (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from Vaccinium myrtillus (Bilberry) Fruits and Cell Cultures. Plant Sci., 131(1): 95-103.
Anticancer (Cervix)	
Anticancer (Lung)	
Antiedemic IC54=320 mg/kg orl	
Antiestrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antifeedant	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Antifertility	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antigonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antihyperlipoproteinaemic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antiinflammatory	
Antileukemic	
Antilymphomic	
Antimutagenic 250 ug/ml	
Antiophidic 2.3 mg mus	Economic & Medicinal Plant Research, 5: 363.
Antioxidant IC44=10 uM	
Antiprogestational	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antiprostaglandin 30 mg/day/12 wks	
Antiprostataadenomic	Merck 11th Edition
Antiprostatic 10-20 mg 3 x/day/orl man	
Antipyretic	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Antitumor (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from Vaccinium myrtillus (Bilberry) Fruits and Cell Cultures. Plant Sci., 131(1): 95-103.
Antitumor (Cervix)	
Antitumor (Lung)	
Antiviral	Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in Artemisia annua. Plant Science, 75: 161-165, 1991.
Apoptotic	
Artemicide LC50=110 ppm	Jung, J.H., Pummangura, S., Chaichantipuyth, c., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of Melodorum fruticosum. Phytochemistry. 29(5): 1667-1670. 1990.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Caspase-8-Inducer	

Febrifuge	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Gonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Hepatoprotective	
Hypocholesterolemic 2-6 g/man/day/orl	Martindale's 30th
Hypocholesterolemic 9-3,330 mg/man/day/orl	Martindale's 28th
Hypoglycemic	Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. Journal of Ethnopharmacology, 27: 243-275, 1989.
Hypolipidemic 2-6 g/day	
Pesticide	
Spermicide	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Ubiquit	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Ulcerogenic 500 mg/kg ipr rat	

BETA-SITOSTEROL-GLUCOSIDE	Rhizome	--	--	*
CORTICOSIDE-I	Plant	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
CORTICOSIDE-J	Plant	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
CURCUMIN	Rhizome	--	--	*

Activities (135)

12-Lipoxygenase-Inhibitor	
5-Alpha-Reductase-Inhibitor	
5-HETE-Inhibitor IC50=3-10 uM	
5-Lipoxygenase-Inhibitor	
8-HETE-Inhibitor IC40=3 uM	
AntiCrohn's	
AntiEBV IC50=5.4 uM	
AntiHIV IC50=40 uM	
Antiadenomacarcinogenic 50-200 mg/kg ipr rat	
Antiaflatoxin IC50=81 uM	
Antiaggregant	
Antialzheimeran 0.5-10 ug/ml	
Antiamyloid-Beta 0.5-10 ug/ml	
Antiangiogenic	
Antiarachidonate	
Antiarthritic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiasthmatic	
Antiatherosclerotic 0.4-20 mg/kg/day	
Antibacterial	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Antibronchitic	
Anticancer	
Anticancer (Breast)	
Anticancer (Colon)	
Anticancer (Duodenum)	
Anticancer (Mammary) 50-200 mg/kg ipr rat	
Anticancer (Skin)	
Anticancer (Stomach)	
Anticarcinogenic	
Anticataract 75 mg/kg orl rat	
Anticholecystotic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Anticolitic	
Anticollagenic	
Antieczemic	Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp.
Antiedemic ED50=100.2 mg/kg orl mus (cf 78 for cortisone)	
Antiedemic ED50=48 mg/kg orl rat (cf 45 for cortisone)	
Antiedemic ED50=48 mg/kg orl rat (cf 48 for phenylbutazone)	
Antieicosanoid	
Antihepatotic	
Antiinflammatory 1,200 mg/man/day	
Antiinflammatory 1 uM	
Antiintegrase 40-150 uM	

Antileishmanic IC50=7.8 ug/ml	
Antileukemic	
Antileukotriene 170 mg/kg orl rat	
Antilipoperoxidant	
Antilithic 0.5% diet	
Antilymphomic 0.4 mg/ml	Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp.
Antilymphomic 4 ug/ml	Mills, Simon and Bone, Kerry. 2000. Phytotherapy. Churchill Livingston, Edinburgh.
Antimelanomic 200 nM/kg orl mus	
Antimetastatic 200 nM/kg orl mus	
Antimutagenic	
Antinitrosaminic	
Antioxidant 1/3 BHA	
Antioxidant IC50=500 uM	
Antipapillomic	
Antiperoxidant	
Antiproliferant IC50=13 uM	
Antiprostaglandin 8.8 uM	
Antipsoriatic	
Antispasmodic	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
Antithrombotic	
Antithromboxane	
Antitumor	
Antitumor (Colon)	
Antitumor (Liver) 10 uM	
Antitumor-Promoter IC91=10 uM	
Antiulcer orl rat	
Antiviral IC50=5.4 uM	
Apoptotic 150-2,000 ppm (diet) orl rat	
Apoptotic 30-90 uM	
COX-2-Inhibitor 10-20 uM	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Cardiodepressant	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp
Chelator IC50=500 uM	
Chelator Iron	
Chemopreventive	
Cholagogue	
Choleretic	HerbalGram No. 24, page 37.
Cyclooxygenase-Inhibitor	
Cytochrome-P450-Inhibitor	Pizzorno, J. 1998. Total Wellness. Prima Health, a division of Prima.
Cytotoxic 0.4-4 mg/ml	Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp.
Cytotoxic IC50=1 ug/ml	
Cytotoxic IC50=25 uM	
DNA-Protective	
Deodorant	Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp.
Detoxicant	
Dye	Merck 11th Edition
Expectorant 100 uM	
Fibrinolytic	
Fungicide	
Glutathionigenic 80 mg/kg igs rat	
Hepatoprotective 30 ppm	
Hepatoprotective 30 mg/kg/day	
Hypocholesterolemic 0.15% diet 7 wks	
Hypolipidemic 0.15% diet 7 wks	
Hypotensive	
IKB-kinase-Inhibitor	
IKK-Inhibitor	
IkappaB-alpha-Phosphorylation-Inhibitor	
Immunostimulant 40 mg/kg/5 wk orl rat	
Lipase-Inducer	
Litholytic 0.5% diet	

MMP-9-Inhibitor 10 uM	
Maltase-Promoter	
Metal-Chelator	McEvily, A.J., Iyengar, R., and Gross, A.T. Inhibition of Polyphenol Oxidase by Phenolic Compounds. Phenolic Compounds in Food and Their Effects on Health, Ch.25.
Mucogenic 100 uM	
NF-kB-Inhibitor	
NO-Inhibitor	
NO-Scavenger	
Nematicide	
Neuroprotective 80 mg/kg igs rat	
Ornithine-Decarboxylase-Inhibitor ED ₅₀ ~150 mg/kg	
P450-Inhibitor IC ₅₀ =2-14 ug/ml	
PGE2-Inhibitor IC ₄₂ =3 uM	
PTK-Inhibitor 5-100 uM	
Pesticide	
Phototoxic	Iwu, M.M. 1993. Handbook of African Medicinal Plants. CRC Press, Boca Raton, FL 435 pp.
Plasmodicide	
Prostaglandin-Synthesis-Inhibitor 0.2% diet rat	Rao, C. V., Rivenson, A., Simi, B., Reddy, B. S. 1995. Chemoprevention of Colon Carcinogenesis by Dietary Curcumin, a Naturally Occurring Plant Phenolic Compound. Cancer Research, 55(2): 259-266.
Protease-Inhibitor IC ₅₀ =11-250 uM	
Protein-Kinase-C-Inhibitor IC ₆₉ =15 uM	
Protein-Kinase-C-Inhibitor IC ₅₀ =15 uM	
Protein-Kinase-Inhibitor	
Pulmonoprotective 200 mg/kg/7 d	
Quinone-Reductase-Inducer 3.4 uM	Singleton, K., et al. 1998. Effect of the Beta-Diketones Diferoloylmethane (Curcumin) and Dibenzoylmethane on Rat Mammary DNA Adducts and Tumors Induced by 7,12-dimethylbenz(A)anthracene. Carcinogenesis, 19(6): 1039-1043.
Radioprotective	
Sortase-A-Inhibitor IC ₅₀ =13-14 ug/ml	
Sucrase-Promoter	
TNF-Inhibitor	
Topoisomerase-I-Inhibitor	
Topoisomerase-II-Inhibitor	
Ulcerogenic orl rat	
VEGF-Inhibitor	

CURCUMINOIDS Rhizome -- 30000.0 1.0 *

Activities (9)

Anticancer	Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
Antiinflammatory	Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
Antileukotriene	Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
Antimitotic	Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
Antiprostaglandin	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Antitumor	Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
Cholagogue	Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
Cytotoxic	Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
Ulcerogenic?	Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.

DIOSGENIN Rhizome -- -- *

Activities (7)

Antifatigue
Antiinflammatory
Antistress
Estrogenic 20-40 mg/kg/day/15 day scu mus
Hepatoprotective
Hypocholesterolemic
Mastogenic 20-40 mg/kg/day/15 day scu mus

DISOCIN Rhizome -- -- *

GRACILLIN Rhizome -- -- *

Activities (1)

MUCILAGE	Rhizome	--	--		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
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Activities (3)					
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.				
Demulcent					
Hypocholesterolemic					

STARCH	Rhizome	--	333333.0	-0.64	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
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Activities (5)					
Absorbent	Martindale's 29th				
Antidote (Iodine)	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.				
Antinesidioblastotic	Martindale's 29th				
Emollient	Martindale's 29th				
Poultice	Martindale's 29th				

STEROID SAPONINS	Rhizome	10000.0	40000.0		*
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TETRADECYL-11-METHYLTRIDECANOATE	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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TETRADECYL-13-METHYLPENTADECANOATE	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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TIGOGENIN	Rhizome	--	--		*
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Activities (1)					
Antitumor					

TRIACONTANOIC-ACID	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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TRIACONTANOL	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
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Activities (3)					
Antidermatitic?					
Antiherpetic?					
Antiinflammatory?					